FATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
10342-018-228 International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/US 01/30684	01/10/2001	03/10/2000	
STRUCTURAL GENOMIX, INC.			
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Autansmitted to the International Bureau.	hority and is transmitted to the applicant	
This International Search Report consists It is also accompanied by	of a total of <u>5</u> sheets. a copy of each prior art document cited in this	report.	
Basis of the report Output Description Note: The leading t	international course was assisted and as the state of	oto of the international applicables to the	
language in which it was filed, unl	international search was carried out on the ba ess otherwise indicated under this item.	sis of the international application in the	
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of	the international application furnished to this	
was carried out on the basis of the contained in the internation filed together with the internation X furnished subsequently to X the statement that the subsequent international application a	e sequence listing: nal application in written form. rnational application in computer readable for this Authority in written form. this Authority in computer readble form. psequently furnished written sequence listing of silied has been furnished.	does not go beyond the disclosure in the	
furnished	minatori recorded in computer readable form i	s identical to the written sequence listing has been	
2. X Certain claims were fou	nd unsearchable (See Box I).		
3. Unity of invention is lac	king (see Box II).		
4. With regard to the title, X the text is approved as su	hmitted by the applicant		
	hed by this Authority to read as follows:		
5. With regard to the abstract, X the text is approved as su the text has been establis within one month from the	•	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.	
6. The figure of the drawings to be publ	·	1	
X as suggested by the appli	cant.	None of the figures.	
because the applicant fail	ed to suggest a figure.		
because this figure better	characterizes the invention.		



ric ational Application N PCT/US 01/30684

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A. CLASSII IPC 7	FICATION OF SUBJECT C07K14/205 G06F17/50	C07K14/305 C07K1/00	C07K14/285	C30B7/00	G01N3	33/68
According to	International Patent Clas	sitication (IPC) or to both	national classification	and IPC		
B. FIELDS	SEARCHED					
Minimum do IPC 7	cumentation scarched (c CO7K	lassification system follov	ved by classification sy	nbols)	,	
	ion Scarched offer than n					arched
	ata base consulted durwy E, BIOSIS	ifm international search	(name of data base an	a, where practical, search	n terms used)	
C. DOCUME	NTS CONSIDERED TO	BE RELEVANT				
Category °	Citation of the unwest and	the whaten where appl	opriate, of the relevant	passages		Relevant to claim No.
P,X	of the quor a catalytic PROCEEDINGS SCIENCES OF Vol. 98, no 25 Septembe	er 2001 (2001- 4. XP002226665 25. 2001 -8424	Otein LuxS in NAL ACADEMY STATES,	eveals OF es		1-77
X Furth	ner documents are listed w	n the continuation of box	с.	Patent family member	ers are listed i	п аппех.
"A" docume consid "E" earlier or filing d "L" docume which citation "O" docume other r "P" docume later th	ent which may throw doubl is cited to establish the pu n or other special reason (ent referring to an oral dis-	direct the art which is not because on or after the international is on priority claim(s) or obtained date of another as specified) closure use, exhibition onternational filling date bed attended.	*Y* ; *Y* ;	ater document published or priority date and not in cited to understand the p invention locument of particular relicannot be considered no involve an inventive step locument of particular relicannot be considered to document is combined with ments, such combination in the art. Date of mailing of the interpretation of the considered to document member of the combination o	a conflict with to principle or the evance; the clowel or cannot owher the doc evance; the clowolve an invith one or mon to being obvious same patent f	he application but ory underlying the aimed invention be considered to unment is taken alone aimed invention entive step when the re other such docu— s to a person skilled
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pplication No PCT/US 01/30684

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C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	LEWIS H A ET AL: "A structural genomics approach to the study of quorum sensing: crystal structures of three LuxS orthologs." STRUCTURE (CAMBRIDGE, MASS.: 2001) UNITED STATES JUN 2001, vol. 9, no. 6, June 2001 (2001-06), pages 527-537, XP002226710 ISSN: 0969-2126 the whole document	1-77
A	BASSLER B L: "How bacteria talk to each other: regulation of gene expression by quorum sensing." CURRENT OPINION IN MICROBIOLOGY. ENGLAND DEC 1999, vol. 2, no. 6, December 1999 (1999-12), pages 582-587, XP002226666 ISSN: 1369-5274 the whole document	1-77
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 63-71

Concerning claims 63-71, applicant's attention is drawn to R. 39(v) PCT. The subject-matter of claims 63-71 refers only to presentation of structural information on a machine-readable medium and is not regarded as patentable invention within the meaning of Rule 39(v) PCT. Thus, the above mentioned claims will not be searched.

Continuation of Box I.2

Claims Nos.: 29-34, 42-44

Present claims 42-44 relate to a product "identified, designed or made according to the method of any of claims 1-41". Since none of the product has been disclosed in the application, the claims so lack support within the meaning of Art. 6 PCT, and the application so lacks disclosure within the meaning of Art. 5 PCT, that a meaningful search of said claims is impossible.

Present claims 29-34 relate to an extremely large number of possible methods. Due to the vague and unclear term "the binding pocket of LuxS protein or a binding pocket homolog" the claims contain so many options that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear, namely claims 1, 14, 15 and 21.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



INTERNATIONAL SEARCH REPORT

international application No. PCT/US 01/30684

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 63-71 because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210
See FURTHER INFURMATION Sheet FCT/15A/2IU
2. X Claims Nos.: 29-34, 42-44 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report
covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.